

# Table of Contents

<b>Chapter 1: Getting Started with BIG-IP .....</b>	<b>1-1</b>
The BIG-IP System .....	1-1
Licensing, Provisioning and the Setup Utility .....	1-6
Backing Up and Restoring the BIG-IP Configuration.....	1-22
F5 Support Resources and Tools .....	1-23
Chapter Resources.....	1-28
Understanding Lab Instruction Notation .....	1-29
BIG-IP Discovery Lab.....	1-32
<b>Chapter 2: Traffic Processing with LTM .....</b>	<b>2-1</b>
Overview of LTM Traffic Processing .....	2-1
Configuring Virtual Servers and Pools.....	2-7
Load Balancing Concepts.....	2-9
Traffic Statistics and Logs.....	2-12
<b>Lab – Virtual Servers and Pools Lab .....</b>	<b>2-17</b>
<b>Chapter 3: Secure Network Address Translation (SNAT) .....</b>	<b>3-1</b>
SNAT Functionality .....	3-1
<b>Lab - SNAT Automap Lab .....</b>	<b>3-7</b>
<b>Chapter 4: Traffic Management Shell and Managing the BIG-IP Configuration.....</b>	<b>4-1</b>
Traffic Management Shell (tmsh).....	4-1
BIG-IP Configuration State and Files.....	4-10
Introducing Archives.....	4-12
Chapter Resources.....	4-18
<b>Lab – tmsh Configuration Labs .....</b>	<b>4-19</b>

<b>Chapter 5: Monitors and the Network Map .....</b>	<b>5-1</b>
Monitor Concepts .....	5-1
Monitor Configuration.....	5-5
Monitor Assignment.....	5-8
Monitor Status Reporting .....	5-12
The Network Map .....	5-16
<b>Lab – Configure Monitors Lab .....</b>	<b>5-18</b>
<b>Chapter 6: Profiles .....</b>	<b>6-1</b>
Introduction to Profiles.....	6-1
Profile Types and Dependencies .....	6-3
Configuring and Using Profiles.....	6-5
SSL Termination .....	6-7
Chapter Resources.....	6-11
<b>Lab 6.1 – Client SSL Profile .....</b>	<b>6-12</b>
<b>Chapter 7: iApps .....</b>	<b>7-1</b>
Introduction to iApps.....	7-1
Application Services.....	7-3
Templates .....	7-5
iApps Ecosystem on DevCentral.....	7-7
<b>Lab – iApps Lab .....</b>	<b>7-8</b>
<b>Chapter 8: Troubleshooting BIG-IP .....</b>	<b>8-1</b>
F5 Support Services and AskF5 .....	8-1
BIG-IP iHealth and QKView Diagnostic Files.....	8-6
Using tcpdump in a BIG-IP Environment .....	8-13
Logging and Notification .....	8-20
SNMP Features.....	8-25
Chapter Resources.....	8-29
<b>Lab 8.1 – Remote Syslog Lab.....</b>	<b>8-30</b>
<b>Lab 8.2 – SNMP Trap Lab.....</b>	<b>8-31</b>
<b>Lab 8.3 – Troubleshooting Lab.....</b>	<b>8-33</b>
<b>Lab 8.4 – iHealth Lab .....</b>	<b>8-34</b>

<b>Chapter 9: BIG-IP Product Family .....</b>	<b>9-1</b>
Overview of the BIG-IP Product Family.....	9-1
DNS and GTM System Options .....	9-2
ASM as a Web Application Firewall.....	9-8
APM and Secure Access .....	9-16
BIG-IP Product Traffic Processing.....	9-19
<b>Chapter 10: Persistence and Configuration Object State .....</b>	<b>10-1</b>
Persistence Concepts .....	10-1
Source Address Affinity Persistence .....	10-4
Cookie Persistence .....	10-8
<b>Lab 10.1 – Source Address Affinity Persistence .....</b>	<b>10-10</b>
<b>Lab 10.2 – Cookie Persistence.....</b>	<b>10-13</b>
Configuration Object Management .....	10-17
<b>Lab 10.3 – Object State and Persistence.....</b>	<b>10-23</b>
<b>Chapter 11: High Availability .....</b>	<b>11-1</b>
High Availability Concepts .....	11-1
Traffic Group and Device Groups.....	11-3
Synchronization, State, and Failover .....	11-10
Device Group Communication.....	11-14
Chapter Resources.....	11-17
<b>Lab – High Availability and Device Group Lab.....</b>	<b>11-18</b>
<b>Chapter 12: BIG-IP Administration.....</b>	<b>12-1</b>
Basic Network Configuration .....	12-1
Restricting Network Access .....	12-11
User Roles and Administrative Partitions.....	12-16
Always On Management (AOM) .....	12-22
License Dates and Upgrade Considerations .....	12-23
BIG-IP Software Management .....	12-26
Chapter Resources.....	12-36
<b>Lab 12.1 – Admin Partitions and Users Lab .....</b>	<b>12-37</b>
<b>Lab 12.2 – Packet Filters Lab (optional).....</b>	<b>12-41</b>
<b>Lab 12.3 – AOM IP Address Lab (optional) .....</b>	<b>12-45</b>

<b>Chapter 13: Enterprise Manager.....</b>	<b>13-1</b>
Introduction to Enterprise Manager.....	13-1
Managing Devices.....	13-5
Custom Lists.....	13-6
Enterprise Manager Tasks .....	13-7
Enterprise Manager and iHealth .....	13-12
Managing Archives from Enterprise Manager .....	13-13
<b>Lab – Enterprise Manager Lab .....</b>	<b>13-15</b>
<b>Chapter 14: iRules .....</b>	<b>14-1</b>
iRules Concepts .....	14-1
iRules Events.....	14-3
<b>Lab – iRules Lab.....</b>	<b>14-6</b>
<b>Appendix A: Complete Setup Lab Instructions.....</b>	<b>A-1</b>
<b>Lab 1.1 – Configure Management IP Address.....</b>	<b>A-1</b>
<b>Lab 1.2 – Licensing, Provisioning and Setup .....</b>	<b>A-5</b>